

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 26, 2005, 04:44:07 ; Search time 28 seconds  
(without alignments)  
1719.595 Million cell updates/sec

Title: US-10-082-747a-93

Sequence: 1 MSERKEGRGKGGKRRGS.....QEEIQARLSSVIANODPIAV 645

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database: Issued Patents AA:  
1: /cgn2\_6/ptodata/1/1aa/5A COMB pepi.\*  
2: /cgn2\_6/ptodata/1/1aa/5B COMB pepi.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3347	100.0	645	1 US-07-847-743B-27	Sequence 27, Appl
2	3347	100.0	645	1 US-08-456-201-27	Sequence 27, Appl
3	3347	100.0	645	1 US-08-428-926-4	Sequence 4, Appl
4	3347	100.0	645	1 US-08-428-927-4	Sequence 4, Appl
5	3347	100.0	645	1 US-08-428-298-4	Sequence 4, Appl
6	3347	100.0	645	1 US-08-339-517-4	Sequence 4, Appl
7	3347	100.0	645	1 US-08-456-241-27	Sequence 27, Appl
8	3347	100.0	645	3 US-09-020-880-93	Sequence 93, Appl
9	3347	100.0	645	3 US-09-101-544-93	Sequence 93, Appl
10	3347	100.0	645	5 US-09-097-681-3	Sequence 3, Appl
11	3347	100.0	645	5 PCT-US92-04295A-27	Sequence 27, Appl
12	3347	100.0	732	1 US-07-847-743B-9	Sequence 9, Appl
13	3347	100.0	732	1 US-08-456-201-9	Sequence 9, Appl
14	3347	100.0	732	1 US-08-456-241-9	Sequence 9, Appl
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16	3343	99.9	645	3 US-08-753-007A-10	Sequence 10, Appl
17	3343	99.9	645	3 US-09-398-496-10	Sequence 10, Appl
18	3343	99.9	646	4 US-08-467-602-270	Sequence 270, Appl
19	3332.5	99.6	646	4 US-08-411-295F-196	Sequence 196, Appl
20	3311	98.9	669	4 US-08-467-602-273	Sequence 273, Appl
21	3311	98.9	669	4 US-08-411-295F-199	Sequence 199, Appl
22	3299	98.6	693	4 US-08-467-602-271	Sequence 271, Appl
23	3299	98.6	693	4 US-08-411-295F-197	Sequence 197, Appl
24	3286	98.2	637	4 US-08-467-602-258	Sequence 258, Appl
25	3286	98.2	637	4 US-08-411-295F-184	Sequence 184, Appl
26	3284	98.1	637	1 US-07-847-743B-28	Sequence 28, Appl
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28	3284	98.1	637	2 US-08-456-241-28	Sequence 28, Appl
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44	3198	95.5	895	4 US-08-467-602-354	Sequence 354, Appl
45	3198	95.5	895	4 US-08-411-295F-280	Sequence 280, Appl

ALIGNMENTS

RESULT 1  
US-07-847-743B-27  
Sequence 27, Application US/07847743B  
Patent No. 5367060  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
TITLE OF INVENTION: Structure, Production and Use of  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: patin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/847,743B  
FILING DATE: 19920306  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/705256  
FILING DATE: 24-May-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/765212  
FILING DATE: 25-Sep-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/790801  
FILING DATE: 08-No. 5367060-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Hensley, Max D.  
REGISTRATION NUMBER: 27,043  
REFERENCE/DOCKET NUMBER: 712P3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/266-1489  
TELEFAX: 415/952-9881  
TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 27:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 645 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
US-07-847-743B-27  
Query Match 100.0%; Score 3347; DB 1; Length 645;





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RESULT 5
US-08-428-298-4
; Sequence 4, Application US/08428298
; Patent No. 5763213
; GENERAL INFORMATION:
; APPLICANT: Ho, Wei-Hsien
; APPLICANT: Osheroff, Phyllis L.
; TITLE OF INVENTION: SENSOR AND MOTOR NEURON DERIVED FACTOR (SMDF)
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/428,298
; FILING DATE: 25-Apr-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/339517
; FILING DATE: 14-NOV-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lee, Wendy M.
; REGISTRATION NUMBER: 00,000
; REFERENCE/DOCKET NUMBER: 853D2
; TELECOMMUNICATION INFORMATION:

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; TELEPHONE: 415/225-1994
; TELEFAX: 415/952-9881
; TELEEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 645 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-428-298-4

Query Match 100.0%; Score 3347; DB 1; Length 645;
Best Local Similarity 100.0%; Pred. No. 1,36-244;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 6
US-08-339-517-4
; Sequence 4, Application US/08339517
; Patent No. 5770567
; GENERAL INFORMATION:
; APPLICANT: Ho, Wei-Hsien
; APPLICANT: Osheroff, Phyllis L.
; TITLE OF INVENTION: SENSOR AND MOTOR NEURON DERIVED FACTOR (SMDF)
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California

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RESULT 8  
US-09-020-880-93  
; Sequence 93, Application US/09020880A  
; Patent No. 6136558  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ballinger, Marcus D.  
; APPLICANT: Jones, Jennifer T.  
; APPLICANT: Fairbrother, Wayne J.  
; APPLICANT: Sliwowski, Mark X.  
; APPLICANT: Wells, James A.  
; TITLE OF INVENTION: HEREGULIN VARIANTS  
; FILE REFERENCE: 14918-720CON1  
; CURRENT APPLICATION NUMBER: US/09/020,880A  
; CURRENT FILING DATE: 1998-02-09  
; EARLIER APPLICATION NUMBER: US 60/037,581  
; EARLIER FILING DATE: 1997-02-10  
; NUMBER OF SEQ ID NOS: 116  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 93  
; LENGTH: 645  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-020-880-93

Query Match 100.0%; Score 3347; DB 3; Length 645;  
Best Local Similarity 100.0%; Pred. No. 1.3e-244;  
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 9  
US-09-101-544-93  
; Sequence 93, Application US/09101544  
; Patent No. 6387638  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ballinger, Marcus D.  
; APPLICANT: Jones, Jennifer T.  
; APPLICANT: Fairbrother, Wayne J.  
; APPLICANT: Sliwowski, Mark X.  
; APPLICANT: Wells, James A.  
; TITLE OF INVENTION: HEREGULIN VARIANTS  
; FILE REFERENCE: 14918-720CON2  
; CURRENT APPLICATION NUMBER: US/09/101,544  
; CURRENT FILING DATE: 1998-07-17  
; PRIOR APPLICATION NUMBER: US 09/020,880  
; PRIOR FILING DATE: 1997-02-10  
; NUMBER OF SEQ ID NOS: 116  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 93  
; LENGTH: 645  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-101-544-93

Query Match 100.0%; Score 3347; DB 3; Length 645;  
Best Local Similarity 100.0%; Pred. No. 1.3e-244;  
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSERKGRGKGKGGKKERSGKKPESAAQSOSPALPPOLKEMKQESAAGSKLVLRCEFS 60  
1 MSERKGRGKGKGGKKERSGKKPESAAQSOSPALPPOLKEMKQESAAGSKLVLRCEFS 60

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RESULT 10
US-09-097-681-3
; Sequence 3, Application US/09097681
; Patent No. 6727077
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; APPLICANT: King, C. Richter
; APPLICANT: Hiji, Mai
; APPLICANT: Ruben, Steve
; TITLE OF INVENTION: Heregulin-Like Factor
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/097,681
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/049,942
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; FILING DATE: 17-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Hoover, Kenley K.
; REGISTRATION NUMBER: 40,302
; REFERENCE/DOCKET NUMBER: PF383PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-3098504
; TELEFAX: 301-309-8439
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 645 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-097-681-3
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Query Match 100.0%; Score 3347; DB 4; Length 645;
Best Local Similarity 100.0%; Pred. No. 1,3e-244;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MSERKGRGKGGKKKGGSGKKPESAGSQSPALPPQLKEMKQESAGSKLVLCETS 60
Db 1 MSERKGRGKGGKKKGGSGKKPESAGSQSPALPPQLKEMKQESAGSKLVLCETS 60
QY 61 SEYSSLRPFKFKGNELNRKNKPONTKIQKKPKSELRIKSLADSGEYMCVISKGN 120
Db 61 SEYSSLRPFKFKGNELNRKNKPONTKIQKKPKSELRIKSLADSGEYMCVISKGN 120
QY 121 DSASANTTIYESNEITGMPPASTEGAVSSESPRISVSTEGANTSSSTSTSTTGTSHLV 180
Db 121 DSASANTTIYESNEITGMPPASTEGAVSSESPRISVSTEGANTSSSTSTSTTGTSHLV 180
QY 181 KCAEKEKTFVCVNGCECFMVVDLSNPSRYLCKCNEFTGDRCONYVMAFPYKHGIERMEA 240
Db 181 KCAEKEKTFVCVNGCECFMVVDLSNPSRYLCKCNEFTGDRCONYVMAFPYKHGIERMEA 240
QY 241 EEIYQKRVLTITGICIALLVGIMCVAYCKTKQKQKLDRLRQSLRSRRNNMMNTANG 300
Db 241 EEIYQKRVLTITGICIALLVGIMCVAYCKTKQKQKLDRLRQSLRSRRNNMMNTANG 300
QY 301 PPHNPPEPVOLVNOYVSKNVISSSEHIVERAETSFTSHYTAHSTTTVTQTPSHSW 360
Db 301 PPHNPPEPVOLVNOYVSKNVISSSEHIVERAETSFTSHYTAHSTTTVTQTPSHSW 360
QY 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGGPRGLNGTGPRECNSTPLRHARETDSY 420
Db 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGGPRGLNGTGPRECNSTPLRHARETDSY 420
QY 421 RDSPHSRRYVSAMTTPARMSPVDFTHTSPSPSEMSPPVSSMTVMPMAVSPFMEEE 480
Db 421 RDSPHSRRYVSAMTTPARMSPVDFTHTSPSPSEMSPPVSSMTVMPMAVSPFMEEE 480
QY 481 RPILLVTPPLREKKFPHHPQOFSSPHHNPADHNSLPASPLRIVEDEVEYETTOEYEPAA 540
Db 481 RPILLVTPPLREKKFPHHPQOFSSPHHNPADHNSLPASPLRIVEDEVEYETTOEYEPAA 540
QY 541 EPVKKLANSRAKTKTNGHIANRLLEVDSNTSSQSSNSESTEDERAGEDETPFGIONPL 600
Db 541 EPVKKLANSRAKTKTNGHIANRLLEVDSNTSSQSSNSESTEDERAGEDETPFGIONPL 600
QY 601 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 645
Db 601 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 645
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RESULT 11
PCT-US92-04295A-27
; Sequence 27, Application PC/TUS9204295A
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; TITLE OF INVENTION: Structure, Production and Use of
; Heregulin
```

```

NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/04295A
FILING DATE: 19920521
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705256
FILING DATE: 24-MAY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/765212
FILING DATE: 25-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/790801
FILING DATE: 08-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/847743
FILING DATE: 06-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Hensley, Max D.
REGISTRATION NUMBER: 27, 043
REFERENCE/DOCKET NUMBER: 712P4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO. 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 645 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear

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Query Match	100.0%	Score 3347	DB 5	Length 645
Best Local Similarity	100.0%	Pred. No. 1.3e-244		
Matches 645	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	1	MSBRKGRGKGGKKKKERGGSKKPPESAAGSOSPALPOLKEMKQESAAGSKTVLRCFES	60	
DB	1	MSBRKGRGKGGKKKKERGGSKKPPESAAGSOSPALPOLKEMKQESAAGSKTVLRCFES	60	
QY	61	SEYSSLRFCFMPFNGNGLNRKNPKQIKTQKPKGSELIRINKASLADSGEYWCVLSKLN	120	
DB	61	SEYSSLRFCFMPFNGNGLNRKNPKQIKTQKPKGSELIRINKASLADSGEYWCVLSKLN	120	
QY	121	DSASANITTVESNEIITGMPASTEGCAVYSSSPRISVSTEGANTSSSTSTTGTSHLY	180	
DB	121	DSASANITTVESNEIITGMPASTEGCAVYSSSPRISVSTEGANTSSSTSTTGTSHLY	180	
QY	181	KCAEKERTCVANGGECFEMWKDLSNBSRYLCLCPMEFTGDRCONVYMASFYKHGIEFMEA	240	
DB	181	KCAEKERTCVANGGECFEMWKDLSNBSRYLCLCPMEFTGDRCONVYMASFYKHGIEFMEA	240	
QY	241	BELYQKRVLTITGICITALLVWIGIMCVAYCYTKQKQKRLHDRLRQSLRSENNMMNIANG	300	
DB	241	BELYQKRVLTITGICITALLVWIGIMCVAYCYTKQKQKRLHDRLRQSLRSENNMMNIANG	300	
QY	301	PHHPNPDPENVOLVNOYYSKNIISSEHI VEREAETSPSTSHYSTAHSITTVTQPSHSM	360	
DB	301	PHHPNPDPENVOLVNOYYSKNIISSEHI VEREAETSPSTSHYSTAHSITTVTQPSHSM	360	
QY	361	SNCHTESILSESHVYVWSSVENSRRSSPTGQPRGLNGTGPRECNFLRHARETPDSY	420	

Db	361	SNQHTESILSESHSVIYWSVENSHSPTGCGRGLNGTGGPRECSFLRHAREPDSV	420
Qy	421	ROSPHERVSMNTTAPAMSPVDFTTBESPKSPSEKSPVSSMTVSPMPMAVSPWEE	480
Db	421	ROSPHERVSMNTTAPAMSPVDFTTBSPSPSPSEKSPVSSMTVSPMPMAVSPWEE	480
Qy	481	RPILLVTPLREKKEDHHPQOFSFHHNPADNSLTPASPLRIVEDEYETTOBYEPAQ	540
Db	481	RPILLVTPLREKKEDHHPQOFSFHHNPADNSLTPASPLRIVEDEYETTOBYEPAQ	540
Qy	541	EPVKULANSRRARKTKPNGHIANRLEVDSNNTSSQSSNSEETDERGEADTPFIQIONPL	600
Db	541	EPVKULANSRRARKTKPNGHIANRLEVDSNNTSSQSSNSEETDERGEADTPFIQIONPL	600
Qy	601	ASALENTPAFRADSRTPAGRFSTQEBTQARLSVIANODPIAV	645
Db	601	ASALENTPAFRADSRTPAGRFSTQEBTQARLSVIANODPIAV	645

RESULT 12  
 US-07-743B-9  
 Sequence 9, Application US/07847743B  
 Patent No. 5367060  
 GENERAL INFORMATION:  
 APPLICANT: Genentech, Inc.  
 TITLE OF INVENTION: Structure, Production and Use of  
 TITLE OF INVENTION: Hergulin  
 NUMBER OF SEQUENCES: 30  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Genentech, Inc.  
 STREET: 460 Point San Bruno Blvd  
 CITY: South San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94060  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: patin (Genentech)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/847,743B  
 FILING DATE: 19920306  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 PRIOR APPLICATION NUMBER: 07/705256  
 FILING DATE: 24-May-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 07/765212  
 FILING DATE: 25-Sep-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 07/780801  
 FILING DATE: 08-Nov. 5367060-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Hensley, Max D.  
 REGISTRATION NUMBER: 27,043  
 REFERENCE/DOCKET NUMBER: 713P3  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415/266-1469  
 TELEFAX: 415/952-9881  
 TELEX: 910/371-7168  
 INFORMATION FOR SEQ ID NO: 9:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 732 amino acids  
 TYPE: AMINO ACID  
 TOPOLOGY: linear  
 US-07-847-743B-9

Query Match	100.0%	Score 3347	DB 1	Length 732
Best Local Similarity	100.0%	Pred. No. 1.6e-24		
Matches 645; Conservative	0	Mismatches 0	Indels 0	Gaps 0







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: REFERENCE/DOCKET NUMBER: 712P4
:
: TELECOMMUNICATION INFORMATION:
:
: TELEPHONE: 415/223-1994
:
: TELEFAX: 415/952-9881
:
: TELE: 910/371-7168
:
: INFORMATION FOR SEQ ID NO: 9:
:
: SEQUENCE CHARACTERISTICS:
:
: LENGTH: 732 amino acids
:
: TYPE: AMINO ACID
:
: TOPOLOGY: linear
:
PCT-US92-04295A-9

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Query Match	100.0%;	Score 3347;	DB 5;	Length 732;
Best Local Similarity	100.0%;	Pred. No. 1.6e-24;		
Matches 645;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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Qy	61	SEYSLRFKFPNGNELNKNKPONIKIOQKSELRINKASLADSGEYMKVYSKLG	120
Dd	91	SEYSLRFKFPNGNELNKNKPONIKIOQKSELRINKASLADSGEYMKVYSKLG	150
Qy	121	DSASANTIVESNEIITGMPASTEGAYVSESPIRISVSTEGANTSSSTSTGTGSHLV	180
Dd	151	DSASANTIVESNEIITGMPASTEGAYVSESPIRISVSTEGANTSSSTSTGTGSHLV	210
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Dd	211	KCAEKEKTFCVANGGECFWKDLNSPERSYLCCKPNEFTGBRCQNYVWASFYKHLGIEFMEA	270
Qy	241	BELYOKRVLTITGICALLVGMCVANYCKTYKKOKKXLDRLROSLRSRRNNMMIANG	300
Dd	271	BELYOKRVLTITGICALLVGMCMVAACKTKOKKXLDRLROSLRSRRNNMMIANG	330
Qy	301	PHHPNPPPNVOLVNOYVSKNYSSEHIVERAEETFSFSTSHYSTVAHSTTVQTPSHSW	360
Dd	331	PHHPNPPPNVOLVNOYVSKNYSSEHIVERAEETFSFSTSHYSTVAHSTTVQTPSHSW	390
Qy	361	SNGHTESIILSESHSVIWMSSVENSRHSSPTGCBGRGLNGTGBRECONSFRLHARETDPDSY	420
Dd	391	SNGHTESIILSESHSVIWMSSVENSRHSSPTGCBGRGLNGTGBRECONSFRLHARETDPDSY	450
Qy	421	RDSHPSERVSAMTTPPARMSPVDFHTPPSSPKSPSPSEMSPVVSMYVMPMAVSPFMEEE	480
Dd	451	RDSHPSERVSAMTTPPARMSPVDFHTPPSSPKSPSPSEMSPVVSMYVMPMAVSPFMEEE	510
Qy	481	RDLLVTPPRLEKEKFDHPHQOQSSFHHPNPAHNSNLSIPASPLIIVEDBEYETTOEYEPAQ	540
Dd	511	RDLLVTPPRLEKEKFDHPHQOQSSFHHPNPAHNSNLSIPASPLIIVEDBEYETTOEYEPAQ	570
Qy	541	BEVYKLIANSRRAKTRPNGHIANRLEVDASTSSQSSNSSESETEDEYGEDTTPFGLIGNPL	600
Dd	571	BEVYKLIANSRRAKTRPNGHIANRLEVDASTSSQSSNSSESETEDEYGEDTTPFGLIGNPL	630
Qy	601	ASLLETPAFRLADSRTPNAGRSTOEEIOARLSVYANDDPYAV	645
Dd	631	ASLLETPAFRLADSRTPNAGRSTOEEIOARLSVYANDDPYAV	675

Search completed: October 26, 2005, 04:51:56  
Job time : 32 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: October 26, 2005, 04:48:43 ; Search time 168 Seconds  
(Without alignments)  
1602.943 Million cell updates/sec

Title: US-10-082-747a-93  
Perfect score: 3347  
Sequence: 1 MSERKGRGKGGKRRGSS.....QEEIQARLSSVIANODPIAV 645

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 1862994 seqs, 417510619 residues

Total number of hits satisfying chosen parameters: 1862994

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database:

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2: /cgn2\_6/prodata/2/pubppa/PC7\_NEW\_PUB.pep:\*  
3: /cgn2\_6/prodata/2/pubppa/US06\_NEW\_PUB.pep:\*  
4: /cgn2\_6/prodata/2/pubppa/US06\_PUBCOMB.pep:\*  
5: /cgn2\_6/prodata/2/pubppa/US07\_NEW\_PUB.pep:\*  
6: /cgn2\_6/prodata/2/pubppa/PC7US\_PUBCOMB.pep:\*  
7: /cgn2\_6/prodata/2/pubppa/US08\_NEW\_PUB.pep:\*  
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21: /cgn2\_6/prodata/2/pubppa/US60\_NEW\_PUB.pep:\*  
22: /cgn2\_6/prodata/2/pubppa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3347	100.0	645	14	US-10-082-747a-93
2	3347	100.0	645	14	US-10-207-498-4
3	3347	100.0	645	15	US-10-609-370-3
4	3347	100.0	645	20	US-11-037-713-44
5	3347	100.0	645	9	US-09-773-517-3
6	3347	100.0	675	9	US-09-793-025-3
7	3347	100.0	675	9	US-09-849-868-3
8	3347	100.0	675	14	US-10-453-183-3
9	3343	99.9	645	13	US-10-086-241-10
10	3343	99.9	645	16	US-10-899-227-10
11	3337	99.7	645	18	US-10-995-011-13

12	3284	98.1	637	9	US-09-773-517-5	Sequence 5, Appl1
13	3284	98.1	637	9	US-09-792-025-5	Sequence 5, Appl1
14	3284	98.1	637	9	US-09-849-868-5	Sequence 5, Appl1
15	3284	98.1	637	14	US-10-453-183-5	Sequence 5, Appl1
16	3280	98.0	637	18	US-10-995-011-14	Sequence 14, Appl1
17	3249	97.1	637	9	US-09-795-668-13	Sequence 13, Appl1
18	3249	97.1	637	9	US-09-795-668-13	Sequence 13, Appl1
19	3249	97.1	637	9	US-09-946-807-13	Sequence 43, Appl1
20	3202.5	95.7	640	20	US-11-037-713-43	Sequence 16, Appl1
21	3192.5	95.4	640	18	US-10-995-011-16	Sequence 14, Appl1
22	3192	95.4	629	9	US-09-795-668-14	Sequence 14, Appl1
23	3192	95.4	629	9	US-09-795-668-14	Sequence 14, Appl1
24	3129.5	93.5	669	9	US-09-773-517-1	Sequence 1, Appl1
25	3129.5	93.5	669	9	US-09-773-517-1	Sequence 1, Appl1
26	3129.5	93.5	669	9	US-09-792-025-1	Sequence 1, Appl1
27	3129.5	93.5	669	9	US-09-849-868-1	Sequence 1, Appl1
28	3129.5	93.5	669	14	US-10-022-609-11	Sequence 11, Appl1
29	3129.5	93.5	669	14	US-10-453-183-1	Sequence 1, Appl1
30	3104.5	92.8	632	9	US-09-795-668-16	Sequence 16, Appl1
31	3104.5	92.8	632	9	US-09-946-807-16	Sequence 16, Appl1
32	3104.5	92.8	632	9	US-09-946-807-16	Sequence 16, Appl1
33	2861	85.5	552	18	US-10-995-011-29	Sequence 29, Appl1
34	2813	84.0	548	9	US-09-795-668-29	Sequence 29, Appl1
35	2813	84.0	548	9	US-09-795-668-29	Sequence 29, Appl1
36	2813	84.0	548	9	US-09-946-807-29	Sequence 29, Appl1
37	2176	65.0	420	9	US-09-773-517-9	Sequence 9, Appl1
38	2176	65.0	420	9	US-09-792-025-9	Sequence 9, Appl1
39	2176	65.0	420	9	US-09-849-868-9	Sequence 9, Appl1
40	2176	65.0	420	14	US-10-453-183-9	Sequence 9, Appl1
41	2086.5	62.3	462	16	US-10-408-765A-883	Sequence 883, Appl1
42	2080.5	62.2	462	18	US-10-995-011-17	Sequence 17, Appl1
43	2032.5	60.7	466	9	US-09-795-668-17	Sequence 17, Appl1
44	2032.5	60.7	466	9	US-09-795-668-17	Sequence 17, Appl1
45	2032.5	60.7	466	9	US-09-946-807-17	Sequence 17, Appl1

#### ALIGNMENTS

RESULT 1  
US-10-082-747a-93  
Sequence 93, Application US/10082747A  
Publication NO. US20030129688A1  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ballinger, Marcus D.  
APPLICANT: Jones, Jennifer T.  
APPLICANT: Fairbrother, Wayne J.  
APPLICANT: Sliwkowski, Mark X.  
TITLE OF INVENTION: HERGULIN VARIANTS  
FILE REFERENCE: 402E-476112US  
CURRENT APPLICATION NUMBER: US/10/082,747A  
CURRENT FILING DATE: 2002-09-16  
PRIOR APPLICATION NUMBER: US 09/101,544  
PRIOR FILING DATE: 1998-07-17  
PRIOR APPLICATION NUMBER: PCT/US/98/01579  
PRIOR FILING DATE: 1998-02-10  
PRIOR APPLICATION NUMBER: US 08/799,054  
PRIOR FILING DATE: 1997-02-10  
NUMBER OF SEQ ID NOS: 116  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 93  
LENGTH: 645  
TYPE: PRT  
ORGANISM: Homo sapiens

US-10-082-747a-93

Query Match 100.0%; Score 3347; DB 14; Length 645;  
Best Local Similarity 100.0%; Pred. No. 7.5e-195;  
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      |||||
61 SEYSLRFKFWKXNGNELNRKNKPQNIKIÖKKPKSELRINKASLADSGEYMKVSKLGN 120
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Qy      |||||
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Qy      |||||
181 KCAEKEXTCVNGGECFVWKDLSNPARYLCKCPNEFTGDRCONYVWASFYKHLGIEFMEA 240
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Qy      |||||
241 EELYÖKRVLTITGICIALLVGIMCVAYCKTKÖKKKLDRLÖSLRSEBRNMNIANG 300
Db      |||||
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301 PHHPPPPENVOLVNOQYVSKNVISSEHIVREAEFTSFSTSHYSTAHSITVYOTPSHSM 360
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Db      |||||
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Qy      |||||
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Qy      |||||
601 AASLEATPAFRLADSRTPAGRFSTÖEEOIÖARLSSVIANODPIAV 645
Db      |||||
601 AASLEATPAFRLADSRTPAGRFSTÖEEOIÖARLSSVIANODPIAV 645

RESULT 2
US-10-207-498-4
/ Sequence 4, Application US/10207498
/ Publication No. US20030143568A1
/ GENERAL INFORMATION:
/ APPLICANT: Elizabeth Singer
/ APPLICANT: Ralf Landgraf
/ APPLICANT: Dennis J. Slamon
/ APPLICANT: David Eisenberg
/ TITLE OF INVENTION: METHODS AND MATERIALS FOR CHARACTERIZING
/ TITLE OF INVENTION: AND MODULATING INTERACTIONS BETWEEN HEREULIN AND HER3
/ FILE REFERENCE: 30448.103-US-U1
/ CURRENT APPLICATION NUMBER: US/10/207,498
/ PRIOR FILING DATE: 2002-07-29
/ PRIOR APPLICATION NUMBER: 60/308,431
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: FaastSeq for Windows Version 4.0
/ SEQ ID NO 4
/ LENGTH: 645
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-207-498-4

Query Match      100.0%; Score 3347; DB 14; Length 645;
Best Local Similarity 100.0%; Pred. No. 7,5e-195;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      |||||
1 MSERKEGKGGKGGKKEGSGKKPESAGSOSPALPQKEMKSGESAAGSKVLVRCETS 60
Qy      |||||
61 SEYSLRFKFWKXNGNELNRKNKPQNIKIÖKKPKSELRINKASLADSGEYMKVSKLGN 120
Db      |||||
61 SEYSLRFKFWKXNGNELNRKNKPQNIKIÖKKPKSELRINKASLADSGEYMKVSKLGN 120
Qy      |||||
121 DASANITTVESNEIITGMPASTEGAYVSESPIRISVSTEGANTSSSTSTGTGSHLV 180
Db      |||||
121 DASANITTVESNEIITGMPASTEGAYVSESPIRISVSTEGANTSSSTSTGTGSHLV 180
Qy      |||||
181 KCAEKEXTCVNGGECFVWKDLSNPARYLCKCPNEFTGDRCONYVWASFYKHLGIEFMEA 240
Db      |||||
181 KCAEKEXTCVNGGECFVWKDLSNPARYLCKCPNEFTGDRCONYVWASFYKHLGIEFMEA 240
Qy      |||||
241 EELYÖKRVLTITGICIALLVGIMCVAYCKTKÖKKKLDRLÖSLRSEBRNMNIANG 300
Db      |||||
241 EELYÖKRVLTITGICIALLVGIMCVAYCKTKÖKKKLDRLÖSLRSEBRNMNIANG 300
Qy      |||||
301 PHHPPPPENVOLVNOQYVSKNVISSEHIVREAEFTSFSTSHYSTAHSITVYOTPSHSM 360
Db      |||||
301 PHHPPPPENVOLVNOQYVSKNVISSEHIVREAEFTSFSTSHYSTAHSITVYOTPSHSM 360
Qy      |||||
361 SNGHTESILSESHSVIWMSSVENSRHSSPTGGPRGLNGTGPRECNSEFLRHARETPDSY 420
Db      |||||
361 SNGHTESILSESHSVIWMSSVENSRHSSPTGGPRGLNGTGPRECNSEFLRHARETPDSY 420
Qy      |||||
421 RDSPHSERVYVAMTTPARMSPVDFTPTSSPKSPPEBMSPPVSSMTVSMPSMAVSPMEBE 480
Db      |||||
421 RDSPHSERVYVAMTTPARMSPVDFTPTSSPKSPPEBMSPPVSSMTVSMPSMAVSPMEBE 480
Qy      |||||
481 RPLLVTPRLREKKEFDHHPQOFSFHHNPAHDSNLSLASPLRIYDEDEYETTOEYEPAQ 540
Db      |||||
481 RPLLVTPRLREKKEFDHHPQOFSFHHNPAHDSNLSLASPLRIYDEDEYETTOEYEPAQ 540
Qy      |||||
541 EPVKKLANSRRAKRTKPNGHIANRLEVDNNTSSQSSNSESETEDEBVEGDTPLGIQNPL 600
Db      |||||
541 EPVKKLANSRRAKRTKPNGHIANRLEVDNNTSSQSSNSESETEDEBVEGDTPLGIQNPL 600
Qy      |||||
601 AASLEATPAFRLADSRTPAGRFSTÖEEOIÖARLSSVIANODPIAV 645
Db      |||||
601 AASLEATPAFRLADSRTPAGRFSTÖEEOIÖARLSSVIANODPIAV 645

RESULT 3
US-10-609-370-3
/ Sequence 3, Application US/10609370
/ Publication No. US20040048295A1
/ GENERAL INFORMATION:
/ APPLICANT: Young et al.
/ TITLE OF INVENTION: Heregulin-Like Factor
/ FILE REFERENCE: P038301
/ CURRENT APPLICATION NUMBER: US/10/609,370
/ PRIOR FILING DATE: 2003-07-01
/ PRIOR APPLICATION NUMBER: 09/097,681
/ PRIOR FILING DATE: 1998-06-16
/ PRIOR APPLICATION NUMBER: 60/049,942
/ PRIOR FILING DATE: 1997-06-17
/ NUMBER OF SEQ ID NOS: 22
/ SOFTWARE: Patentin version 3.2
/ SEQ ID NO 3
/ LENGTH: 645
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-609-370-3

Query Match      100.0%; Score 3347; DB 15; Length 645;
Best Local Similarity 100.0%; Pred. No. 7,5e-195;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 61 SEYSLRPFKMFKNQNELNRKNRPONIKIOKPKGSELRINKASLADSGEYMKVLSKLG 120  
DB 61 SEYSLRPFKMFKNQNELNRKNRPONIKIOKPKGSELRINKASLADSGEYMKVLSKLG 120  
QY 121 DSASANTITVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTSTTGTSHLV 180  
DB 121 DSASANTITVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTSTTGTSHLV 180  
QY 181 KCAEKEKTCVNGGECFPMVKDLSNPSRYLCKCNEFTGRCQNYVASFYKHLGIEFMEA 240  
DB 181 KCAEKEKTCVNGGECFPMVKDLSNPSRYLCKCNEFTGRCQNYVASFYKHLGIEFMEA 240  
QY 241 BELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLHDLRQSLRSERRNMNIANG 300  
DB 241 BELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLHDLRQSLRSERRNMNIANG 300  
QY 301 PPHNPPEPVQLVNQYVSKNVISSSEHIVERAETSFTSHYSTAHSTTTVQTPSHSW 360  
DB 301 PPHNPPEPVQLVNQYVSKNVISSSEHIVERAETSFTSHYSTAHSTTTVQTPSHSW 360  
QY 361 SNGHTESIIESSHVIVMSSVENSRHSSPTGPRGLNGTGPRECNFLRHAETPDY 420  
DB 361 SNGHTESIIESSHVIVMSSVENSRHSSPTGPRGLNGTGPRECNFLRHAETPDY 420  
QY 421 RDSPHSERVYSAAMTTPARMSPVDFTPTSSPKSPPEMSPVSSMTVSMPSMAVSPFMEEE 480  
DB 421 RDSPHSERVYSAAMTTPARMSPVDFTPTSSPKSPPEMSPVSSMTVSMPSMAVSPFMEEE 480  
QY 481 RPLLVTLPRLREKKPDHHPQOFSSFFHNPADHSNLSIPASPLRIVEDEEYETTOEYPAQ 540  
DB 481 RPLLVTLPRLREKKPDHHPQOFSSFFHNPADHSNLSIPASPLRIVEDEEYETTOEYPAQ 540  
QY 541 EPVKLANSRRAKRTKNGHIANRLEVDNNTSSQSSSESETEDEBERGDETPFLGIQNP 600  
DB 541 EPVKLANSRRAKRTKNGHIANRLEVDNNTSSQSSSESETEDEBERGDETPFLGIQNP 600  
QY 601 AASLEATPAFLADSRTPNAGRFSTOEIOARLSSVIANODPIAV 645  
DB 601 AASLEATPAFLADSRTPNAGRFSTOEIOARLSSVIANODPIAV 645

RESULT 4  
US-11-037-713-44  
; Sequence 44, Application US/11037713  
; Publication No. US20050221398A1  
; GENERAL INFORMATION:  
; APPLICANT: JACQUEMIER, JOCELYNE  
; APPLICANT: BERTUCCI, FRANCOIS  
; APPLICANT: BIRNBAUM, DANIEL  
; APPLICANT: DEBONO, STEPHANE  
; APPLICANT: TASETTI, REBECCA  
; TITLE OF INVENTION: PROTEIN EXPRESSION PROFILING AND BREAST CANCER  
; FILE REFERENCE: 1016-R-04(B)  
; CURRENT APPLICATION NUMBER: US/11/037,713  
; PRIOR FILING DATE: 2005-01-18  
; PRIOR APPLICATION NUMBER: 60/537,412  
; NUMBER OF SEQ ID NOS: 54  
; SOFTWARE: Patentin Ver. 3.3  
; SEQ ID NO 44  
; LENGTH: 645  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-037-713-44

Query Match 100.0%; Score 3347; DB 20; Length 645;  
Best Local Similarity 100.0%; Pred. No. 7.5e-195;  
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSERKEGKGKGGKKGKRGSGKPSAAGSOPALPOLKMKQESASAGSKVLVRCETS 60  
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DB 1 MSERKEGKGKGGKKGKRGSGKPSAAGSOPALPOLKMKQESASAGSKVLVRCETS 60  
QY 61 SEYSLRPFKMFKNQNELNRKNRPONIKIOKPKGSELRINKASLADSGEYMKVLSKLG 120  
DB 61 SEYSLRPFKMFKNQNELNRKNRPONIKIOKPKGSELRINKASLADSGEYMKVLSKLG 120  
QY 121 DSASANTITVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTSTTGTSHLV 180  
DB 121 DSASANTITVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTSTTGTSHLV 180  
QY 181 KCAEKEKTCVNGGECFPMVKDLSNPSRYLCKCNEFTGRCQNYVASFYKHLGIEFMEA 240  
DB 181 KCAEKEKTCVNGGECFPMVKDLSNPSRYLCKCNEFTGRCQNYVASFYKHLGIEFMEA 240  
QY 241 BELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLHDLRQSLRSERRNMNIANG 300  
DB 241 BELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLHDLRQSLRSERRNMNIANG 300  
QY 301 PPHNPPEPVQLVNQYVSKNVISSSEHIVERAETSFTSHYSTAHSTTTVQTPSHSW 360  
DB 301 PPHNPPEPVQLVNQYVSKNVISSSEHIVERAETSFTSHYSTAHSTTTVQTPSHSW 360  
QY 361 SNGHTESIIESSHVIVMSSVENSRHSSPTGPRGLNGTGPRECNFLRHAETPDY 420  
DB 361 SNGHTESIIESSHVIVMSSVENSRHSSPTGPRGLNGTGPRECNFLRHAETPDY 420  
QY 421 RDSPHSERVYSAAMTTPARMSPVDFTPTSSPKSPPEMSPVSSMTVSMPSMAVSPFMEEE 480  
DB 421 RDSPHSERVYSAAMTTPARMSPVDFTPTSSPKSPPEMSPVSSMTVSMPSMAVSPFMEEE 480  
QY 481 RPLLVTLPRLREKKPDHHPQOFSSFFHNPADHSNLSIPASPLRIVEDEEYETTOEYPAQ 540  
DB 481 RPLLVTLPRLREKKPDHHPQOFSSFFHNPADHSNLSIPASPLRIVEDEEYETTOEYPAQ 540  
QY 541 EPVKLANSRRAKRTKNGHIANRLEVDNNTSSQSSSESETEDEBERGDETPFLGIQNP 600  
DB 541 EPVKLANSRRAKRTKNGHIANRLEVDNNTSSQSSSESETEDEBERGDETPFLGIQNP 600  
QY 601 AASLEATPAFLADSRTPNAGRFSTOEIOARLSSVIANODPIAV 645  
DB 601 AASLEATPAFLADSRTPNAGRFSTOEIOARLSSVIANODPIAV 645

RESULT 5  
US-09-773-517-3  
; Sequence 3, Application US/09773517  
; Patent No. US20010023241A1  
; GENERAL INFORMATION:  
; APPLICANT: Sliwowski, Mark  
; APPLICANT: Kern, Jeffrey  
; TITLE OF INVENTION: Use of Heregulin as a Growth Factor  
; FILE REFERENCE: P1145R1  
; CURRENT APPLICATION NUMBER: US/09/773,517  
; PRIOR FILING DATE: 2001-02-02  
; PRIOR APPLICATION NUMBER: 09/243,198  
; NUMBER OF SEQ ID NOS: 14  
; SEQ ID NO 3  
; LENGTH: 675  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-773-517-3

Query Match 100.0%; Score 3347; DB 9; Length 675;  
Best Local Similarity 100.0%; Pred. No. 7.9e-195;  
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSERKEGKGKGGKKGKRGSGKPSAAGSOPALPOLKMKQESASAGSKVLVRCETS 60  
DB 31 MSERKEGKGKGGKKGKRGSGKPSAAGSOPALPOLKMKQESASAGSKVLVRCETS 90  
QY 61 SEYSLRPFKMFKNQNELNRKNRPONIKIOKPKGSELRINKASLADSGEYMKVLSKLG 120  
|||||

Db	9	SEVSJLRFKMFKNKGNELNKNKPQNIKIQKRGKSELINKASLADSGEYVCKVISLGN	150
Qy	121	DSASNIITTVESNEIITGMPASTBEGAYVSSSEPTIISTVGANTSSSTSTSTTSHLY	180
Db	151	DSASNIITTVESNEIITGMPASTBEGAYVSSSEPIRISTVGANTSSSTSTSTTSHLY	210
Qy	181	KCAEKKETCVNGGCECFWVKDLSNPSRYLCKCPNEFTDRCQNYVMSFYKHLGIEFMEA	240
Db	211	KCAEKKETCVNGGCECFWVKDLSNPSRYLCKCPNEFTDRCQNYVMSFYKHLGIEFMEA	270
Qy	241	EELYQKRVLTITGICLALLVGMCVVAYCKTKQKRLHLRLFQSLRSEKNNMNTANG	300
Db	271	EELYQKRVLTITGICLALLVGMCVVAYCKTKQKRLHLRLQSLRSEKNNMNTANG	330
Qy	301	PHHPNPPPEVQLVQNYVSKNVISSSEHIVERAEATSFTSHYSTAHSTTVTQTPSHW	360
Db	331	PHHPNPPPEVQLVQNYVSKNVISSSEHIVERAEATSFTSHYSTAHSTTVTQTPSHW	390
Qy	361	SNGHTESILSESHSVIWMSSVENSRRHSPTGGPRGLNGTGCPRECSFLRHAETPDY	420
Db	391	SNGHTESILSESHSVIWMSSVENSRRHSPTGGPRGLNGTGCPRECSFLRHAETPDY	450
Qy	421	RDSPEERVYSAANTTPARMSPVDFHTPSSPKSPSEMSPVSSMTVMSMNAVSPFEZE	480
Db	451	RDSPEERVYSAANTTPARMSPVDFHTPSSPKSPSEMSPVSSMTVMSMNAVSPFEZE	510
Qy	481	RPLLVTPLRLREKKEFDHHPQOFSSPHNHPADSNSLPASPLRIVEDEYETTOEYPAQ	540
Db	511	RPLLVTPLRLREKKEFDHHPQOFSSPHNHPADSNSLPASPLRIVEDEYETTOEYPAQ	570
Qy	541	EPVKILANSRRARRTPNGHIANRLVDSNNTSSQSSNESTEDBERGCEPTPLGIONPL	600
Db	571	EPVKILANSRRARRTPNGHIANRLVDSNNTSSQSSNESTEDBERGCEPTPLGIONPL	630
Qy	601	ASLEATPAFRLADSRTPNAGRFSTQEOELQARLSSVIANODPIAV	645
Db	631	ASLEATPAFRLADSRTPNAGRFSTQEOELQARLSSVIANODPIAV	675
RESULT 6			
US-09-792-025-3			
Sequence 3, Application US/09792025			
Patent No. US20020042087A1			
GENERAL INFORMATION:			
APPLICANT: Sliwowski, Mark			
Kern, Jeffrey			
TITLE OF INVENTION: Use of Heterogulin as a Growth Factor			
NUMBER OF SEQUENCES: 14			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Genentech, Inc.			
STREET: 1 DNA Way			
CITY: South San Francisco			
STATE: California			
COUNTRY: USA			
ZIP: 94080			
COMPUTER READABLE FORM:			
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: WinPatIn (Genentech)			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/09/792,025			
FILING DATE: 23-Feb-2001			
CLASSIFICATION: <Unknown>			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: 09/020,598			
FILING DATE: <Unknown>			
ATTORNEY/AGENT INFORMATION:			
NAME: Schwartz, Timothy R.			
REGISTRATION NUMBER: 32171			
REFERENCE/DOCKET NUMBER: P1145			
TELECOMMUNICATION INFORMATION:			
TELEPHONE: 650/225-7467			

[illegible]



LENGTH: 675  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-849-868-3

Query Match 100.0%; Score 3347; DB 9; Length 675;  
Best Local Similarity 100.0%; Pred. No. 7.9e-195;  
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 MSRRKGRGKGGKKKKRRSGKKPESAGSOSPALPPOLKEMKSOBSAAGSKVLRCETS 60
31 MSRRKGRGKGGKKKKRRSGKKPESAGSOSPALPPOLKEMKSOBSAAGSKVLRCETS 90
61 SEYSSLRKFMKFNKGNELNKNKPNQIKIQKPKGSELRINKASLADSGEYMKVLSKLN 120
91 SEYSSLRKFMKFNKGNELNKNKPNQIKIQKPKGSELRINKASLADSGEYMKVLSKLN 150
121 DSASANITIVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTSTGSHLV 180
151 DSASANITIVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTSTGSHLV 210
181 KCAEKERTCVNGGECFPMVKDLSNPSRYLCKCPNEFTGRCQNYVMAVSFYKHLGIFPMEA 240
211 KCAEKERTCVNGGECFPMVKDLSNPSRYLCKCPNEFTGRCQNYVMAVSFYKHLGIFPMEA 270
241 EELYOKRVLITIGICIALLVGIMCVVAYCKTKQKQKLDRLRQSLRSENNMMNIANG 300
271 EELYOKRVLITIGICIALLVGIMCVVAYCKTKQKQKLDRLRQSLRSENNMMNIANG 330
301 PPHNPPEPVQVQVNOYVSKNVISSSEHIVERAEFTSFSTSHYSTAHSTTVQTPSHSW 360
331 PPHNPPEPVQVQVNOYVSKNVISSSEHIVERAEFTSFSTSHYSTAHSTTVQTPSHSW 390
361 SNGHTSIISESHSVYVMSVENSRRSSPTGGPRGLNGTGGPRECSFLRHARETDSY 420
391 SNGHTSIISESHSVYVMSVENSRRSSPTGGPRGLNGTGGPRECSFLRHARETDSY 450
421 RDSPHSERVYVAMTTPARMSPVDFHTPSSPKSPPEMSPVVSMYVMPMAVSPFMEEE 480
451 RDSPHSERVYVAMTTPARMSPVDFHTPSSPKSPPEMSPVVSMYVMPMAVSPFMEEE 510
481 RPLLVTPRLREKKEPDHPQOFSSFHNNPAHDSNSLPASPLRIVEDEEYETTOEYEPAAQ 540
511 RPLLVTPRLREKKEPDHPQOFSSFHNNPAHDSNSLPASPLRIVEDEEYETTOEYEPAAQ 570
541 EPYVKLANSRRAKRTKNGHIANRLEVDNNTSSQSSNSESETDERVGEEDTPELGIONPL 600
571 EPYVKLANSRRAKRTKNGHIANRLEVDNNTSSQSSNSESETDERVGEEDTPELGIONPL 630
601 AASLEATPAFLADSRTPAGRFSTOEBIQARLSSVIANODPIAV 645
631 AASLEATPAFLADSRTPAGRFSTOEBIQARLSSVIANODPIAV 675
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RESULT 8  
US-10-453-183-3  
Sequence 3, Application US/10453183  
Publication No. US20030199429A1  
GENERAL INFORMATION:  
APPLICANT: Slawkowski, Mark  
TITLE OF INVENTION: Use of Heregulin as a Growth Factor  
FILE REFERENCE: P1145R1  
CURRENT APPLICATION NUMBER: US/10/453.183  
CURRENT FILING DATE: 2003-06-03  
PRIOR APPLICATION NUMBER: US/09/243.198  
PRIOR FILING DATE: 1999-02-02  
PRIOR APPLICATION NUMBER: US 60/073,866  
NUMBER OF SEQ ID NOS: 14  
SEQ ID NO 3  
LENGTH: 675  
TYPE: PRT

ORGANISM: Homo sapiens  
US-10-453-183-3

Query Match 100.0%; Score 3347; DB 14; Length 675;  
Best Local Similarity 100.0%; Pred. No. 7.9e-195;  
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 MSRRKGRGKGGKKKKRRSGKKPESAGSOSPALPPOLKEMKSOBSAAGSKVLRCETS 60
31 MSRRKGRGKGGKKKKRRSGKKPESAGSOSPALPPOLKEMKSOBSAAGSKVLRCETS 90
61 SEYSSLRKFMKFNKGNELNKNKPNQIKIQKPKGSELRINKASLADSGEYMKVLSKLN 120
91 SEYSSLRKFMKFNKGNELNKNKPNQIKIQKPKGSELRINKASLADSGEYMKVLSKLN 150
121 DSASANITIVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTSTGSHLV 180
151 DSASANITIVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTSTGSHLV 210
181 KCAEKERTCVNGGECFPMVKDLSNPSRYLCKCPNEFTGRCQNYVMAVSFYKHLGIFPMEA 240
211 KCAEKERTCVNGGECFPMVKDLSNPSRYLCKCPNEFTGRCQNYVMAVSFYKHLGIFPMEA 270
241 EELYOKRVLITIGICIALLVGIMCVVAYCKTKQKQKLDRLRQSLRSENNMMNIANG 300
271 EELYOKRVLITIGICIALLVGIMCVVAYCKTKQKQKLDRLRQSLRSENNMMNIANG 330
301 PPHNPPEPVQVQVNOYVSKNVISSSEHIVERAEFTSFSTSHYSTAHSTTVQTPSHSW 360
331 PPHNPPEPVQVQVNOYVSKNVISSSEHIVERAEFTSFSTSHYSTAHSTTVQTPSHSW 390
361 SNGHTSIISESHSVYVMSVENSRRSSPTGGPRGLNGTGGPRECSFLRHARETDSY 420
391 SNGHTSIISESHSVYVMSVENSRRSSPTGGPRGLNGTGGPRECSFLRHARETDSY 450
421 RDSPHSERVYVAMTTPARMSPVDFHTPSSPKSPPEMSPVVSMYVMPMAVSPFMEEE 480
451 RDSPHSERVYVAMTTPARMSPVDFHTPSSPKSPPEMSPVVSMYVMPMAVSPFMEEE 510
481 RPLLVTPRLREKKEPDHPQOFSSFHNNPAHDSNSLPASPLRIVEDEEYETTOEYEPAAQ 540
511 RPLLVTPRLREKKEPDHPQOFSSFHNNPAHDSNSLPASPLRIVEDEEYETTOEYEPAAQ 570
541 EPYVKLANSRRAKRTKNGHIANRLEVDNNTSSQSSNSESETDERVGEEDTPELGIONPL 600
571 EPYVKLANSRRAKRTKNGHIANRLEVDNNTSSQSSNSESETDERVGEEDTPELGIONPL 630
601 AASLEATPAFLADSRTPAGRFSTOEBIQARLSSVIANODPIAV 645
631 AASLEATPAFLADSRTPAGRFSTOEBIQARLSSVIANODPIAV 675
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RESULT 9  
US-10-096-241-10  
Sequence 10, Application US/10096241  
Publication No. US20020127394A1  
GENERAL INFORMATION:  
APPLICANT: Gearing, David P.  
TITLE OF INVENTION: DON-1 GENE AND POLYPEPTIDES  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS

[illegible]

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RESULT 10
US-10-899-227-10
Sequence 10: Application US/10899227
Publication No. US20040265970A1
GENERAL INFORMATION:
APPLICANT: Geating, David P.
Busfield, Samantha J.
TITLE OF INVENTION: DON-1 GENE AND POLYPEPTIDES
AND USES THEREFOR
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/899,227
FILING DATE: 26-Jul-2004
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/096,241
FILING DATE: 12-Mar-2002
APPLICATION NUMBER: 08/699,591
FILING DATE: 19-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Fasse, J. Peter
REGISTRATION NUMBER: 32,983
REFERENCE/DOCKET NUMBER: 07334/022001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 645 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-10-899-227-10

Query Match          99.9%  Score 3343;  DB 16;  Length 645;
Match Local Similarity 99.8%;  Pred. No. 1.3e-194;
Matches 644;  Conservative 1;  Mismatches 0;  Indels 0;  Gaps 0

QY      1 MSERKEGRGKGKGGKRGSGKKPESAAAGSQSPALPQLKEMKQESAAGSKLVLRCTSS 60
DB      1 MSRRKRGGRGKGKGGKRGSGKKPESAAAGSQSPALPRLKEMKQESAAGSKLVLRCTSS 60

QY      61 SEYSSLRFFKFKNGNEINRKKPKONIKIQKKPKGSELRINKASLADSEYNYCKYISKGN 120
DB      61 SEYSSLRFFKFKNGNEINRKKPKONIKIQKKPKGSELRINKASLADSEYNYCKYISKGN 120

QY      121 DSAASANTIIYESNEIITGMPASTGAVVSESPRISVSTEGANTSSSTSTGTSHLV 180
DB      121 DSAASANTIIYESNEIITGMPASTGAVVSESPRISVSTEGANTSSSTSTGTSHLV 180

QY      122 DSAASANTIIYESNEIITGMPASTGAVVSESPRISVSTEGANTSSSTSTGTSHLV 180
DB      122 DSAASANTIIYESNEIITGMPASTGAVVSESPRISVSTEGANTSSSTSTGTSHLV 180

QY      181 KCAEKEKTFPCVNGGECFMDLSNPSRYLCKCPNEFTGDRCONYVMA SFYHGLGIEFMEA 240
DB      181 KCAEKEKTFPCVNGGECFMDLSNPSRYLCKCPNEFTGDRCONYVMA SFYHGLGIEFMEA 240

QY      181 KCAEKEKTFPCVNGGECFMDLSNPSRYLCKCPNEFTGDRCONYVMA SFYHGLGIEFMEA 240
DB      181 KCAEKEKTFPCVNGGECFMDLSNPSRYLCKCPNEFTGDRCONYVMA SFYHGLGIEFMEA 240

QY      241 BELYQKRVLTITIGICALLVVGIMCVAYCYCKTKQKRLHRLNQSIRSEENNMNINANG 300
DB      241 BELYQKRVLTITIGICALLVVGIMCVAYCYCKTKQKRLHRLNQSIRSEENNMNINANG 300

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Db 241 BELYORVLTITGICLALLVGMVAVCKTKKQKLDRLQSLRSENNMNIANG 300  
QY 301 PHHNPPPEVQVQVNOVYKGVISSEHIVERAEFTSHTSTAHSTTVTQTPSHW 360  
Db 301 PHHNPPPEVQVQVNOVYKGVISSEHIVERAEFTSHTSTAHSTTVTQTPSHW 360  
QY 361 SNCHTESILSESHSVIWMSSVENSRRHSSPTGPRGRLNGTGGPRECNFLRAHRETPDSY 420  
Db 361 SNCHTESILSESHSVIWMSSVENSRRHSSPTGPRGRLNGTGGPRECNFLRAHRETPDSY 420  
QY 421 RDSPHSERVYSAVMTTPARMSPVDFTHTSPSPSEKSPPEVSSMTVSMPSMAVSPFMEEE 480  
Db 421 RDSPHSERVYSAVMTTPARMSPVDFTHTSPSPSEKSPPEVSSMTVSMPSMAVSPFMEEE 480  
QY 481 RPLLLVTPPLRREKPFHHPQOFSSFHNNPAHDSNLSLPASPLRIVEDEEYETTOEYEPAQ 540  
Db 481 RPLLLVTPPLRREKPFHHPQOFSSFHNNPAHDSNLSLPASPLRIVEDEEYETTOEYEPAQ 540  
QY 541 EPVKKLANSRRARKTKENGHIANRLEVDNNTSSQSSNSESETEDERVGEDTPELGIQNP 600  
Db 541 EPVKKLANSRRARKTKENGHIANRLEVDNNTSSQSSNSESETEDERVGEDTPELGIQNP 600  
QY 601 AASLEATPAFRLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645  
Db 601 AASLEATPAFRLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645

RESULT 11  
US-10-995-011-13  
Sequence 13, Application US/10995011  
Publication No. US20050208527A1  
GENERAL INFORMATION:  
APPLICANT: Stefansson, Hreinn  
APPLICANT: Steinhorsdottir, Valgerdur  
APPLICANT: Guichey, Jeffrey R.  
APPLICANT: Guirney, Mark  
APPLICANT: Andreasson, Thorkeil  
TITLE OF INVENTION: Human Schizophrenia Gene  
FILE REFERENCE: 2345 2004-021  
CURRENT APPLICATION NUMBER: US/10/995,011  
CURRENT FILING DATE: 2004-11-22  
PRIOR APPLICATION NUMBER: US 10/107,604  
PRIOR FILING DATE: 2002-03-26  
PRIOR APPLICATION NUMBER: US 09/946,807  
PRIOR FILING DATE: 2001-09-05  
PRIOR APPLICATION NUMBER: PCT/US01/06377  
PRIOR FILING DATE: 2001-02-28  
PRIOR APPLICATION NUMBER: US 09/795,668  
PRIOR FILING DATE: 2001-02-28  
PRIOR APPLICATION NUMBER: US 09/515,716  
PRIOR FILING DATE: 2000-02-28  
NUMBER OF SEQ ID NOS: 1676  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 13  
LENGTH: 645  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-995-011-13

Query Match 99.7%; Score 3337; DB 18; Length 645;  
Best Local Similarity 99.7%; Pred. No. 3e-194;  
Matches 643; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSERKEGKGKGGKKEGSGKKPESAGSOSPALPOLKEMKQESAAAGSKVLVRCETS 60  
Db 1 MSERKEGKGKGGKKEGSGKKPESAGSOSPALPOLKEMKQESAAAGSKVLVRCETS 60  
QY 61 SEYSLRPFKMFQNGNELNRKKNKPNIKIQKKPGKSELIRINKASLADSGEYWCYISKLGN 120  
Db 61 SEYSLRPFKMFQNGNELNRKKNKPNIKIQKKPGKSELIRINKASLADSGEYWCYISKLGN 120  
QY 121 DSANANTTVESNEITITGMPASTEGAYVSSSPRIISVSTEGANTSSSTSTTGTSHLV 180  
Db 121 DSANANTTVESNEITITGMPASTEGAYVSSSPRIISVSTEGANTSSSTSTTGTSHLV 180

Db 121 DSANANTTVESNEITITGMPASTEGAYVSSSPRIISVSTEGANTSSSTSTTGTSHLV 180  
QY 181 KCAEKEKTCVNGGCECFMYKDLNBPRIYLCCKPNETGRCQNYWAAEFYKHLGIFEMEA 240  
Db 181 KCAEKEKTCVNGGCECFMYKDLNBPRIYLCCKPNETGRCQNYWAAEFYKHLGIFEMEA 240  
QY 241 BELYORVLTITGICLALLVGMVAVCKTKKQKLDRLQSLRSENNMNIANG 300  
Db 241 BELYORVLTITGICLALLVGMVAVCKTKKQKLDRLQSLRSENNMNIANG 300  
QY 301 PHHNPPPEVQVQVNOVYKGVISSEHIVERAEFTSHTSTAHSTTVTQTPSHW 360  
Db 301 PHHNPPPEVQVQVNOVYKGVISSEHIVERAEFTSHTSTAHSTTVTQTPSHW 360  
QY 361 SNCHTESILSESHSVIWMSSVENSRRHSSPTGPRGRLNGTGGPRECNFLRAHRETPDSY 420  
Db 361 SNCHTESILSESHSVIWMSSVENSRRHSSPTGPRGRLNGTGGPRECNFLRAHRETPDSY 420  
QY 421 RDSPHSERVYSAVMTTPARMSPVDFTHTSPSPSEKSPPEVSSMTVSMPSMAVSPFMEEE 480  
Db 421 RDSPHSERVYSAVMTTPARMSPVDFTHTSPSPSEKSPPEVSSMTVSMPSMAVSPFMEEE 480  
QY 481 RPLLLVTPPLRREKPFHHPQOFSSFHNNPAHDSNLSLPASPLRIVEDEEYETTOEYEPAQ 540  
Db 481 RPLLLVTPPLRREKPFHHPQOFSSFHNNPAHDSNLSLPASPLRIVEDEEYETTOEYEPAQ 540  
QY 541 EPVKKLANSRRARKTKENGHIANRLEVDNNTSSQSSNSESETEDERVGEDTPELGIQNP 600  
Db 541 EPVKKLANSRRARKTKENGHIANRLEVDNNTSSQSSNSESETEDERVGEDTPELGIQNP 600  
QY 601 AASLEATPAFRLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645  
Db 601 AASLEATPAFRLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645

RESULT 12  
US-09-773-517-5  
Sequence 5, Application US/09773517  
Patent No. US20010023241A1  
GENERAL INFORMATION:  
APPLICANT: Sliwowski, Mark  
APPLICANT: Kern, Jeffrey  
TITLE OF INVENTION: Use of Heregulin as a Growth Factor  
FILE REFERENCE: P1145R1  
CURRENT APPLICATION NUMBER: US/09/773,517  
CURRENT FILING DATE: 2001-02-02  
PRIOR APPLICATION NUMBER: 09/243,198  
PRIOR FILING DATE: 1999-02-02  
NUMBER OF SEQ ID NOS: 14  
SEQ ID NO 5  
LENGTH: 637  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-773-517-5

Query Match 98.1%; Score 3284; DB 9; Length 637;  
Best Local Similarity 98.6%; Pred. No. 4.9e-191;  
Matches 636; Conservative 0; Mismatches 1; Indels 8; Gaps 1;

QY 1 MSERKEGKGKGGKKEGSGKKPESAGSOSPALPOLKEMKQESAAAGSKVLVRCETS 60  
Db 1 MSERKEGKGKGGKKEGSGKKPESAGSOSPALPOLKEMKQESAAAGSKVLVRCETS 60  
QY 61 SEYSLRPFKMFQNGNELNRKKNKPNIKIQKKPGKSELIRINKASLADSGEYWCYISKLGN 120  
Db 61 SEYSLRPFKMFQNGNELNRKKNKPNIKIQKKPGKSELIRINKASLADSGEYWCYISKLGN 120  
QY 121 DSANANTTVESNEITITGMPASTEGAYVSSSPRIISVSTEGANTSSSTSTTGTSHLV 180  
Db 121 DSANANTTVESNEITITGMPASTEGAYVSSSPRIISVSTEGANTSSSTSTTGTSHLV 180  
QY 181 KCAEKEKTCVNGGCECFMYKDLNBPRIYLCCKPNETGRCQNYWAAEFYKHLGIFEMEA 240  
Db 181 KCAEKEKTCVNGGCECFMYKDLNBPRIYLCCKPNETGRCQNYWAAEFYKHLGIFEMEA 240

Db 181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYK-----A 232

QY 241 EELYQKRVLTITGICIALLVGIMCVAYCKTKQKRLHDLRQSLRSENNMMNIANG 300

Db 233 EELYQKRVLTITGICIALLVGIMCVAYCKTKQKRLHDLRQSLRSENNMMNIANG 292

QY 301 PPHNPPPPENVOLVNOVYKSNVISSEHIVERAEFTSFTSHYSTAHSTTAVTQTPSHSW 360

Db 293 PPHNPPPPENVOLVNOVYKSNVISSEHIVERAEFTSFTSHYSTAHSTTAVTQTPSHSW 352

QY 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGPRGLNGTGPREGCNFLRHARETSDY 420

Db 353 SNGHTESILSESHSVIWMSSVENSRHSSPTGPRGLNGTGPREGCNFLRHARETSDY 412

QY 421 RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPSEMSPPVSMYMSMAVSPMEBE 480

Db 413 RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPSEMSPPVSMYMSMAVSPMEBE 472

QY 481 RPLLVTPRLREKFKDHPQOFSFHNNPAHDSNLSPLRIYDEDEYETTOEYEPAO 540

Db 473 RPLLVTPRLREKFKDHPQOFSFHNNPAHDSNLSPLRIYDEDEYETTOEYEPAO 532

QY 541 EPVKKLANSRRAKRTKPNGHIANRLLEVDSNTSSQSSNSESETEDETVGEDTFLGIQNP 600

Db 533 EPVKKLANSRRAKRTKPNGHIANRLLEVDSNTSSQSSNSESETEDETVGEDTFLGIQNP 592

QY 601 AASLEATPAFLADSRTPAGRSTOEBIOARLSSVIANODPIAV 645

Db 593 AASLEATPAFLADSRTPAGRSTOEBIOARLSSVIANODPIAV 637

RESULT 13

US-09-792-025-5

Sequence 5, Application US/09792025

Patent No. US20020042087A1

GENERAL INFORMATION:

APPLICANT: Siliukowski, Mark

Kern, Jeffrey

TITLE OF INVENTION: Use of Heregulin as a Growth Factor

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatIn (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/792,025

FILING DATE: 23-Feb-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/020,598

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Schwartz, Timothy R.

REGISTRATION NUMBER: 32171

REFERENCE/DOCKET NUMBER: P1145

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-7467

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 637 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

MOLECULE TYPE: amino acid

SEQUENCE DESCRIPTION: SEQ ID NO: 5:

US-09-792-025-5

Query Match 98.1%; Score 3284; DB 9; Length 637;

Best Local Similarity 98.6%; Pred. No. 4,9e-191;

Matches 636; Conservative 0; Mismatches 1; Indels 8; Gaps 1;

QY 1 MSEREGKRGKGGKKEKRGSGKPPESAAGSQSPALPPLQEKMSQBSAAGSKLIVRCETS 60

Db 1 MSEREGKRGKGGKKEKRGSGKPPESAAGSQSPALPPLQEKMSQBSAAGSKLIVRCETS 60

QY 61 SEYSSILRFKFWKNGNENLRKNKPNQIKIQKPKGSELRINKASLADSGEYMKVSKLGN 120

Db 61 SEYSSILRFKFWKNGNENLRKNKPNQIKIQKPKGSELRINKASLADSGEYMKVSKLGN 120

QY 121 DASANITIVSENEITITGMPASTEGAYVSSSPITISVTBEGANSSSTSTGTGSHLV 180

Db 121 DASANITIVSENEITITGMPASTEGAYVSSSPITISVTBEGANSSSTSTGTGSHLV 180

QY 181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYKGLIEFMEA 240

Db 181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYK-----A 232

QY 241 EELYQKRVLTITGICIALLVGIMCVAYCKTKQKRLHDLRQSLRSENNMMNIANG 300

Db 233 EELYQKRVLTITGICIALLVGIMCVAYCKTKQKRLHDLRQSLRSENNMMNIANG 292

QY 301 PPHNPPPPENVOLVNOVYKSNVISSEHIVERAEFTSFTSHYSTAHSTTAVTQTPSHSW 360

Db 293 PPHNPPPPENVOLVNOVYKSNVISSEHIVERAEFTSFTSHYSTAHSTTAVTQTPSHSW 352

QY 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGPRGLNGTGPREGCNFLRHARETSDY 420

Db 353 SNGHTESILSESHSVIWMSSVENSRHSSPTGPRGLNGTGPREGCNFLRHARETSDY 412

QY 421 RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPSEMSPPVSMYMSMAVSPMEBE 480

Db 413 RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPSEMSPPVSMYMSMAVSPMEBE 472

QY 481 RPLLVTPRLREKFKDHPQOFSFHNNPAHDSNLSPLRIYDEDEYETTOEYEPAO 540

Db 473 RPLLVTPRLREKFKDHPQOFSFHNNPAHDSNLSPLRIYDEDEYETTOEYEPAO 532

QY 541 EPVKKLANSRRAKRTKPNGHIANRLLEVDSNTSSQSSNSESETEDETVGEDTFLGIQNP 600

Db 533 EPVKKLANSRRAKRTKPNGHIANRLLEVDSNTSSQSSNSESETEDETVGEDTFLGIQNP 592

QY 601 AASLEATPAFLADSRTPAGRSTOEBIOARLSSVIANODPIAV 645

Db 593 AASLEATPAFLADSRTPAGRSTOEBIOARLSSVIANODPIAV 637

RESULT 14

US-09-849-868-5

Sequence 5, Application US/09849868

Patent No. US20020081299A1

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

ATTORNEY/AGENT INFORMATION:

TITLE OF INVENTION: HAIR CELL DISORDERS

FILE REFERENCE: GENENT.035VPC

CURRENT APPLICATION NUMBER: US/09/849,868

CURRENT FILING DATE: 2001-05-04

NUMBER OF SEQ ID NOS: 14

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 5

LENGTH: 637

TYPE: PRT

ORGANISM: Homo sapiens

US-09-849-868-5

Query Match 98.1%; Score 3284; DB 9; Length 637;

Best Local Similarity 98.6%; Pred. No. 4,9e-191;

Matches 636; Conservative 0; Mismatches 1; Indels 8; Gaps 1;

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QY 1 MSERKEGRGKGGKKKRGSGKKPESAAQSOSPALPQLKEMKQESAAAGSKVLVRCETS 60
Db 1 MSRRKGGRGKGGKKKRGSGKKPESAAQSOSPALPQLKEMKQESAAAGSKVLVRCETS 60
QY 61 SEYSSLRFKMFKNGKNGELNRKPKQNIKIQQKPKSELRINKASLADSGEYMCVYSKLG 120
Db 61 SEYSSLRFKMFKNGKNGELNRKPKQNIKIQQKPKSELRINKASLADSGEYMCVYSKLG 120
QY 121 DSASANTITVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTTGTSHLV 180
Db 121 DSASANTITVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTTGTSHLV 180
QY 181 KCAEKEKTFVCNGGECFMYKDLNPSRYLCKCNEFTGDRCONYVMAFPYKHLGIERMEA 240
Db 181 KCAEKEKTFVCNGGECFMYKDLNPSRYLCKCNEFTGDRCONYVMAFPYKHLGIERMEA 240
QY 241 EELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLDRLRQSLRSENNMMNTANG 300
Db 241 EELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLDRLRQSLRSENNMMNTANG 300
QY 223 EELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLDRLRQSLRSENNMMNTANG 292
Db 223 EELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLDRLRQSLRSENNMMNTANG 292
QY 301 PPHNPPEPVOLVNOYVSKNVISSEHIVEREAETSFSTSHYSTAHSTTTVOTPSHW 360
Db 293 PPHNPPEPVOLVNOYVSKNVISSEHIVEREAETSFSTSHYSTAHSTTTVOTPSHW 352
QY 361 SNGHTESILSESHSVIWMSSVENSRRHSSPTGPRGRINGTGPRECNFLRHAETPDSY 420
Db 353 SNGHTESILSESHSVIWMSSVENSRRHSSPTGPRGRINGTGPRECNFLRHAETPDSY 412
QY 421 RDSPHSRRYVSAMTTPARMSPVDFHTPSSPKSPPEMSPVSSMTVMPMAVSPFMEEE 480
Db 413 RDSPHSRRYVSAMTTPARMSPVDFHTPSSPKSPPEMSPVSSMTVMPMAVSPFMEEE 472
QY 481 RPLLLVTPPLREKKFPDHPQOFSSFFHNPADHNSLPASPLRIVEDEEYETTOEYPAQ 540
Db 473 RPLLLVTPPLREKKFPDHPQOFSSFFHNPADHNSLPASPLRIVEDEEYETTOEYPAQ 532
QY 541 EPVKCLANSRRAKTKNGHIANRLEVDNNTSSQSSNSESETEDERVGEDTFFLGIONPL 600
Db 533 EPVKCLANSRRAKTKNGHIANRLEVDNNTSSQSSNSESETEDERVGEDTFFLGIONPL 592
QY 601 AASLEATPAFRLADSRTPAGRSTOEIOARLSSVIANODPIAV 645
Db 593 AASLEATPAFRLADSRTPAGRSTOEIOARLSSVIANODPIAV 637

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Db 1 MSERKEGRGKGGKKKRGSGKKPESAAQSOSPALPQLKEMKQESAAAGSKVLVRCETS 60
QY 61 SEYSSLRFKMFKNGKNGELNRKPKQNIKIQQKPKSELRINKASLADSGEYMCVYSKLG 120
Db 61 SEYSSLRFKMFKNGKNGELNRKPKQNIKIQQKPKSELRINKASLADSGEYMCVYSKLG 120
QY 121 DSASANTITVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTTGTSHLV 180
Db 121 DSASANTITVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTTGTSHLV 180
QY 181 KCAEKEKTFVCNGGECFMYKDLNPSRYLCKCNEFTGDRCONYVMAFPYKHLGIERMEA 240
Db 181 KCAEKEKTFVCNGGECFMYKDLNPSRYLCKCNEFTGDRCONYVMAFPYKHLGIERMEA 240
QY 241 EELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLDRLRQSLRSENNMMNTANG 300
Db 223 EELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLDRLRQSLRSENNMMNTANG 292
QY 301 PPHNPPEPVOLVNOYVSKNVISSEHIVEREAETSFSTSHYSTAHSTTTVOTPSHW 360
Db 293 PPHNPPEPVOLVNOYVSKNVISSEHIVEREAETSFSTSHYSTAHSTTTVOTPSHW 352
QY 361 SNGHTESILSESHSVIWMSSVENSRRHSSPTGPRGRINGTGPRECNFLRHAETPDSY 420
Db 353 SNGHTESILSESHSVIWMSSVENSRRHSSPTGPRGRINGTGPRECNFLRHAETPDSY 412
QY 421 RDSPHSRRYVSAMTTPARMSPVDFHTPSSPKSPPEMSPVSSMTVMPMAVSPFMEEE 480
Db 413 RDSPHSRRYVSAMTTPARMSPVDFHTPSSPKSPPEMSPVSSMTVMPMAVSPFMEEE 472
QY 481 RPLLLVTPPLREKKFPDHPQOFSSFFHNPADHNSLPASPLRIVEDEEYETTOEYPAQ 540
Db 473 RPLLLVTPPLREKKFPDHPQOFSSFFHNPADHNSLPASPLRIVEDEEYETTOEYPAQ 532
QY 541 EPVKCLANSRRAKTKNGHIANRLEVDNNTSSQSSNSESETEDERVGEDTFFLGIONPL 600
Db 533 EPVKCLANSRRAKTKNGHIANRLEVDNNTSSQSSNSESETEDERVGEDTFFLGIONPL 592
QY 601 AASLEATPAFRLADSRTPAGRSTOEIOARLSSVIANODPIAV 645
Db 593 AASLEATPAFRLADSRTPAGRSTOEIOARLSSVIANODPIAV 637

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Search completed: October 26, 2005, 05:04:43  
Job time : 172 secs

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RESULT 15
US-10-453-183-5
; Sequence 5, Application US/10453183
; Publication No. US20030199429A1
; GENERAL INFORMATION:
; APPLICANT: Sliwowski, Mark
; TITLE OF INVENTION: Use of Heregulin as a Growth Factor
; FILE REFERENCE: P1145R1
; CURRENT APPLICATION NUMBER: US/10/453,183
; PRIOR FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: US/09/243,198
; PRIOR FILING DATE: 1999-02-02
; PRIOR APPLICATION NUMBER: US 60/073,866
; NUMBER OF SEQ ID NOS: 14
; SEQ ID NO 5
; LENGTH: 637
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-183-5

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Query Match 98.1%; Score 3284; DB 14; Length 637;  
Best Local Similarity 98.6%; Pred. No. 4,9e-191;  
Matches 636; Conservative 0; Mismatches 1; Indels 8; Gaps 1;

QY 1 MSERKEGRGKGGKKKRGSGKKPESAAQSOSPALPQLKEMKQESAAAGSKVLVRCETS 60

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